FACULTY OF ANIMAL AND AGRICULTURAL SCIENCE

VETERANITY UNDERGRADUATE PROGRAM

Module Handbook

Module designation	**Feed Processing Technology**
Semester(s) in which the module is taught	3th Semester
Person responsible for the module	Dr. Ir. Retno Iswarin Pujaningsih, MAgrSc.; Prof. Dr. Ir. Sri Mukodiningsih M.S., Ir. Bambang Sulistiyanto M.Agr.Sc., Ph.D., IPU., Prof. Dr. Ir. Bambang Waluyo Hadi Eko Prasetiyono M.S., M.Agr., IPU.Dr. Sri Sumarsih S.Pt., M.P., IPM., Dr. Ir. Baginda Iskandar Moeda Tampoebolon M.Si., IPM.
Language	Indonesian, English
Relation to curriculum	Compulsory mordule for Animal Science Program
Teaching methods	Lecture, small goup discussion, cooperative learning,, discovery learning;
Workload (incl. contact hours, self-study hours)	✓ 340 minutes Lecture per week (class 100 minutes; Assignment 120 minutes; 120 minutes self study) ✓ 170 minutes Laboratory session ✓ 100 minutes Mid Term Exam in the eighth and Final Exam in the sixteenth week
Credit points	3 (lecture 2 and laboratory session 1)
Required and recommended prerequisites for joining the module	Feed and Diet Formulation
Module objectives/intended learning outcomes	✓ Internalizing academic value, norm and ethic ;Showing attitude of being responsible of the duties in the expertise area independently ;Internalizing the spirit of independence, fight, and entrepreneurship ✓ Able to take the right decision in the context of solving the problems in the area of expertise, based on the information, fact and data analysis ✓ Able to demonstrate the technology in feed processing of various feed ingredients ✓ Knowledge: ✓ Mastering the concept of animal feed technology processing
Content	The course elaborates the knowledge of physical, chemical and biological processing techniques of various feed ingredients, both grain, forage and agricultural and agro-industrial waste for maintaining and or increasing its nutritional value.
Examination forms	Paper assignment; Self-study; Midterm exam; Final exam

Study and examination requirements	✓ 75 % presence in the learning process ✓ 25 % midterm examination ✓ 25 % final examination ✓ 50 % (lab works; assignment;presentation)
Reading list	1. Pfost, 1964. The effect of lignin binders, die thickness and temperature on the pelleting process Feedstuffs,, 36 (22) (1964), p. 20 2. Pujaningsih, R.I dan CI Sutrisno. 2011. Wafer Feed Technology. Undip Press. ISBN 978.979.704.987.4 3. Pujaningsih R. I. 2006. Pengelolaan Bijian pada Industri Makanan Ternak. Undip Press. ISBN 979.704.365.7 4. Pujaningsih, R.I, S Mukodiningsih dan S Sumarsih. 2020. Teknologi Pengolahan Pakan (Pembuatan Hay). Undip Press. ISBN 978.979.097.747.1 5. Young, LR and H.B. Pfost. 1982. The effect of colloidal binders and other factors on pelleting Feedstuffs,, 34 (1962), pp. 36-38 6. Tang Xiu Zhiu Deng. 2007. Grain forage corn and feed processing technology. China Agricultural Science. ISBN 978.780.167.581.1 7. Wiley. 2007. Food and Feed Technology. ISBN-13: 978-0470174487 8. George D. Saravacos; Athanasios E. Kostaropoulos. 2003. Handbook of Food Processing Equipment